

## AMENDMENTS TO THE CLAIMS

The claims in this listing will replace all prior versions, and listings, of claims in the application.

### LISTING OF CLAIMS:

Claims 1-6 (Canceled)

Claim 7. (Currently Amended) A dielectric porcelain composition calcined at a temperature of not less than 1300°C comprising  $\text{MgTiO}_3$ ,  $\text{Mg}_2\text{SiO}_4$  and  $\text{CaTiO}_3$ , ~~characterised in that the composition satisfies~~ and satisfying  $a + b + c = 1$ ,  $0 < b < 1$  and  $0 < c \leq 0.15$ , wherein  $a$  denotes a molar ratio of  $\text{MgTiO}_3$ ,  $b$  denotes a molar ratio of  $\text{Mg}_2\text{SiO}_4$  and  $c$  denotes a molar ratio of  $\text{CaTiO}_3$ .

Claim 8. (Currently Amended) The composition according to claim 7, ~~characterised in that~~ wherein the molar ratio  $b$  is defined as  $0.5 \leq b < 1$  and the molar ratio  $c$  is defined as  $0.05 \leq c \leq 0.09$ .

Claims 9-11. (Canceled)

Claim 12. (Currently Amended) A dielectric resonator ~~characterised in that it~~ uses comprising as a dielectric material a dielectric porcelain composition calcined at a temperature of not less than 1300°C that comprises  $\text{MgTiO}_3$ ,  $\text{Mg}_2\text{SiO}_4$  and  $\text{CaTiO}_3$  and satisfies  $a + b + c = 1$ ,  $0 < b < 1$  and  $0 < c \leq 0.15$ , wherein  $a$  denotes a molar ratio of  $\text{MgTiO}_3$ ,  $b$  denotes a molar ratio of  $\text{Mg}_2\text{SiO}_4$  and  $c$  denotes a molar ratio of  $\text{CaTiO}_3$ .

Claims 13-14. (Canceled)

Claim 15. (Currently Amended) A manufacturing process for a dielectric porcelain composition that comprises  $\text{MgTiO}_3$ ,  $\text{Mg}_2\text{SiO}_4$  and  $\text{CaTiO}_3$ , ~~characterised in~~

~~that it comprises a step of~~ comprising adjusting respective contents of  $\text{Mg}_2\text{SiO}_4$  and  $\text{CaTiO}_3$  to satisfy  $a + b + c = 1$ ,  $0 < b < 1$  and  $0 < c \leq 0.15$ , wherein  $a$  denotes a molar ratio of  $\text{MgTiO}_3$ ,  $b$  denotes a molar ratio of  $\text{Mg}_2\text{SiO}_4$  and  $c$  denotes a molar ratio of  $\text{CaTiO}_3$ , thereby adjusting relative permittivity  $\epsilon_r$  and temperature coefficient  $\tau_f$ , and calcining these materials at a temperature of not less than 1300°C.

Claim 16. (New) A dielectric porcelain composition consisting of  $\text{MgTiO}_3$ ,  $\text{Mg}_2\text{SiO}_4$  and  $\text{CaTiO}_3$  and satisfying  $a + b + c = 1$ ,  $0 < b < 1$  and  $0 < c \leq 0.15$ , wherein  $a$  denotes a molar ratio of  $\text{MgTiO}_3$ ,  $b$  denotes a molar ratio of  $\text{Mg}_2\text{SiO}_4$  and  $c$  denotes a molar ratio of  $\text{CaTiO}_3$ .

Claim 17. (New) The composition according to claim 16, wherein the molar ratio  $b$  is defined as  $0.5 \leq b < 1$  and the molar ratio  $c$  is defined as  $0.05 \leq c \leq 0.09$ .

Claim 18. (New) A dielectric resonator comprising as a dielectric material a dielectric porcelain composition consisting of  $\text{MgTiO}_3$ ,  $\text{Mg}_2\text{SiO}_4$  and  $\text{CaTiO}_3$  and satisfies  $a + b + c = 1$ ,  $0 < b < 1$  and  $0 < c \leq 0.15$ , wherein  $a$  denotes a molar ratio of  $\text{MgTiO}_3$ ,  $b$  denotes a molar ratio of  $\text{Mg}_2\text{SiO}_4$  and  $c$  denotes a molar ratio of  $\text{CaTiO}_3$ .

Claim 19. (New) A manufacturing process for a dielectric porcelain composition consisting of  $\text{MgTiO}_3$ ,  $\text{Mg}_2\text{SiO}_4$  and  $\text{CaTiO}_3$ , comprising adjusting respective contents of  $\text{Mg}_2\text{SiO}_4$  and  $\text{CaTiO}_3$  to satisfy  $a + b + c = 1$ ,  $0 < b < 1$  and  $0 < c \leq 0.15$ , wherein  $a$  denotes a molar ratio of  $\text{MgTiO}_3$ ,  $b$  denotes a molar ratio of  $\text{Mg}_2\text{SiO}_4$  and  $c$  denotes a molar ratio of  $\text{CaTiO}_3$ , thereby adjusting relative permittivity  $\epsilon_r$  and temperature coefficient  $\tau_f$ .